

WHAT IS CLAIMED IS:

1. A cellular system having a plurality of radio base stations communicable with radio terminals by radio, wherein,
5 in a cell boundary in which a plurality of cells are adjacent to each other, each radio base station constituting the cell boundary selects a slot different from the other, and transmits the selected slot with a transmitting power larger than that of the other slot transmitted by the radio
10 base station itself.

2. A radio base station respectively diffusing a plurality of slots by diffusion codes and transmitting the slots, wherein a slot different from that of the other radio base
15 station adjacent thereto is selected as an object slot, and the object slot is transmitted with a transmitting power larger than that of the other slot transmitted by the radio base station itself.

3. A radio base station of a radio communication system, wherein the radio base station is communicable with a radio terminal by radio, diffuses data to be transmitted to a plurality of radio terminals by diffusion codes different from one to another for the plurality of radio terminals
20 accommodated in the radio base station itself, and transmits the data by a plurality of slots corresponding to the plurality of terminals, among the plurality of slots, a slot different from that of the other radio base station adjacent thereto is selected as an object slot, and the object slot
25 is transmitted with a transmitting power larger than that of the other slot transmitted by the radio base station itself.

4. The radio base station according to claim 3, wherein the selected object slot is plural, and the number of slots to be selected is determined in accordance with a concentration degree of traffic.

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5. A radio base station of a radio communication system, comprising:

transmitting means, for a plurality of terminals accommodated in the radio base station itself, for diffusing data transmitted to the plurality of radio terminals by diffusion codes different from one another and transmitting the data by a plurality of slots corresponding to the plurality of terminals; and

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selecting means for selecting a slot different from that of the other radio base station adjacent thereto as an object slot,

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wherein the transmitting means transmits the object slot with a transmitting power larger than that of the other slot transmitted by the radio base station itself.

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6. The radio base station according to claim 5, wherein the transmitting means transmits the slot with a transmitting power larger by 3 dB or more than that of the other slot.

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7. The radio base station according to claim 5, wherein the transmitting means transmits the slot with a transmitting power larger by 3 dB or more to 10 dB or less than that of the other slot.

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8. A cellular system, wherein, in a cell boundary in which a plurality of cells are adjacent to each other, each radio base station constituting the cell boundary diffuses data to

be transmitted to the plurality of radio terminals by diffusion codes different from one another, and transmits the data by a plurality of slots corresponding to the plurality of terminals, for the plurality of radio terminals accommodated in the radio base station itself, and among the plurality of slots, a slot different from those selected by an adjacent radio base station constituting the cell boundary is selected, and a transmission beam of the selected slot is transmitted with a beam having a width narrower than that of a transmission beam of the other slot transmitted by the radio base station itself.

9. The radio base station according to claim 8, wherein the selected slot is allotted to a radio terminal having a high request value of any one of a calling QoS and a receiving call QoS.

10. A radio base station, comprising:

a time slot preparing unit for preparing a time slot to be transmitted to a radio terminal;

a selecting unit for selecting a modulation system and a coding method of the time slot prepared by the preparing unit;

a signal processing unit for modulating and coding the time slot prepared by the preparing unit according to the modulation system and the coding method selected by the selecting unit;

an amplifying unit for amplifying the slot modulated and coded by the signal processing unit;

a controlling unit for controlling the amplifying unit to amplify a transmitting power of a specified priority slot among the plurality of time slots so as to be larger than

that of a non-priority slot; and

an antenna unit for transmitting the time slot amplified by the amplifying unit.

5 11. A radio base station, comprising:

a time slot preparing unit for preparing a time slot to be transmitted to a radio terminal;

a selecting unit for selecting a modulation system and a coding method of the time slot prepared by the preparing unit;

a signal processing unit for modulating and coding the time slot prepared by the preparing unit according to the modulation system and the coding method selected by the selecting unit;

15 an amplifying unit for amplifying the slot modulated and coded by the signal processing unit;

an antenna unit for transmitting the time slot amplified by the amplifying unit; and

20 a controlling unit for controlling the antenna unit to transmit a specified priority slot among the plurality of time slots with a beam having a width narrower than that of a beam of a non-priority slot.

25 12. The radio base station according to claim 10, further comprising a determining unit for determining the priority slot in order that transmission timing of the priority slot can be different from that of a priority slot of the other radio base station located in the direction where the priority slot is transmitted.

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13. The radio base station according to claim 11, further comprising a determining unit for determining the priority

slot in order that transmission timing of the priority slot can be different from that of a priority slot of the other radio base station located in the direction where the priority slot is transmitted.